Jialuo Gan

No. 37, Xueyuan Road, Haidian District, Beijing, 100191, China

imisilence@foxmail.com | +86-18810700132

EDUCATION

- **Beihang University** — Beijing, China
  Bachelor of Engineering in Computer Science & Technology;   GPA:3.7/4.0 — *Sept. 2014 - Jul. 2018*
- **Beihang University** — Beijing, China
  Bachelor of Arts in English(Dual Degree);   GPA:3.6/4.0 — *Sept. 2015 - Jul. 2018*

SKILLS

- **Programming Languages**: C, Java, HTML, JavaScript, CSS, Python, C++, SQL, Linux
- **Tools** : Echarts, MySQL, Eclipse, Git, Visual Studio, Android Studio, LaTeX, D3, Webpack, React
- **Core Curriculum**: Mathematical Analysis(99/100), Advanced Algebra(92/100), Object-Oriented Modelling Technology(94/100), Operating System(85/100), Computer Network(88/100),Database System(90/100), Social Computing(100/100)
- **Teaching Assistant:** Undergraduate Advanced English Listening Course, Beihang University — *Sep. 2016 - Feb. 2017*
  Undergraduate English Movies Course, Beihang University — *Sep. 2015 - Feb. 2016*

EXPERIENCE

- **Visualization Team, Engineering Experimental Center of SCSE** — Beijing, China
  Student Researcher& Team Leader   Advisor:Jingyuan Wang — *Jun. 2016 - May. 2017*
  - Led a team of three to design and developed a visualization system based on web development technology.
  - Designed and validated analysed mode based on massive data from CENNAVI with SVR and other data-mining methods.
  - Designed a new analysis procedure and used dynamic interface to interact, then generated reports automatically after steps.
- **HCI team, State Key Laboratory of Virtual Reality Technology and Systems** — Beijing, China
  Student Researcher   Advisor:Junjun Pan — *Sept. 2017 - Jun. 2018*
  - Developed the framework, CHAI3D to design some critical scenes of a assembly task using OpenGL& C++.
  - Based on collision algoritithms, users could touch and feel the strength of power.
  - Users could touch and move some industrial parts by operating a Phantom and finished the task.

PROJECTS

- **Big Data Analysis on a TV play** - *Python & Echarts & HTML* — *May 2017 - Jun. 2017*
  - Managed a team of five and built a model to find the relationship between the comments and the TV drama.
- **Object-oriented Projects** - *Java & UML* — *Mar.2016 - Jun.2016*
  - Designed,wrote and tested multi-threaded programs using object-oriented system analysis method with Double Blind Testing.
  - Developed dispatching system:a single-thread and multi-thread elevator control system & the scheduling of vehicle system.
  - Using Thread-safe class, imitated changes of a File System with IFTTT with testing cases involving Junit framework.
- **Website Development For Booking Tickets** - *Bootstrap, Javascript, MySQL, Ajax* — *Sept. 2016 -Jan. 2017*
  - Cooperated with a teammate to build a website which supports booking tickets and other functions.
  - Analysed the dependency, optimised the query by index and set resonable acess control.
  - Finshed database design in MySQL and implemented back-end by using Bootstrap.
- **C0-Compiler Project** - *C* — *Oct. 2016 - Jan. 2017*
  - Designed and implemented a compiler in C++ for a subset of C programming language with multiple optimizations.
  - The parser contained analysis among lexical, grammar and semantic, then generated the intermediate code and got target code.
  - Ran the target code(MIPS) on Mars4_5 to testify with methods to optimize and then generated DAG to delete extra parts.
- **MIPS-Based Linux System Kernel to Accomplish An Operating System** - *C & MIPS* — *Mar.2016 - Jun.2016*
  - Developed a Linux system kernel with memory management, process control and file system based on MIT-JOS project.
- **Verilog-based CPU Design** - *Verilog HDL, MIPS* — *Sept.2015 - Dec.2015*
  - A MIPS CPU implemented in VerilogHDL with support of 56 MIPS instructions with 5 stages of MIPS Datapath.

HONORS & AWARDS

- **Honors:** Outstanding Graduates, Beijing — *Juli. 2018*
  – to the 5% best students from the top universities in Beijing
  Second Prize, Beihang "Fengru Cup" Competition of Academic and Technological Works — *May. 2017*
  Honorable Mention, Mathematical Contest in Modeling — *Apr. 2017*
- **Awards:** National Encouragement Scholarship — *Sept. 2015 & Sept. 2017*
  Scholarship of Academic Excellence Award, Beihang University — *Sept. 2017*